

**INFORMATION DISCLOSURE STATEMENT**  
PTO Form 1449

PTO Form 1449

**Docket Number**  
**589,063US2**

589.063US2

**S rial Number**  
**09/848,594**

**09/848.594**

**Applicant(s)**

Sujal Bhalakia, et al.

Filing Date

May 3, 2001

### Group Art Unit

~~2873~~ 1773

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE (IF APPROPRIATE)
REZ		3,051,054	8/28/62	Crandon, H.D.	88	65	12/18/58
REZ		3,786,119	01/15/74	Ortlieb, C.	264	2	12/06/71
REZ		3,846,013	11/05/74	Cohen, F.S.	350	147	12/07/72
REZ		3,877,798	04/15/74	Tolar, H.R., et al.	351	168	09/30/70
REZ		3,940,304	02/24/76	Schuler, N.W.	156	245	04/01/74
REZ		4,268,134	05/19/81	Gulati, S.T., et al.	351	163	03/07/79
REZ		4,495,015	01/22/85	Petcen, D.H.	156	80	09/01/83
REZ		4,645,317	02/24/87	Frieder, P.M., et al.	351	164	02/22/83
REZ		4,679,918	07/14/87	Ace, R.S.	351	163	10/23/84
REZ		4,781,452	11/01/88	Ace, R.S.	351	177	11/07/84
REZ		4,793,703	12/27/88	Fretz, Jr., E.R.	351	163	08/03/87
REZ		4,867,553	09/19/89	Frieder, P.M.	351	172	03/30/87
REZ		4,873,029	10/10/89	Blum, R.D.	264	1.3	10/30/87
REZ		4,883,548	11/28/89	Onoki, F.	156	99	04/21/88
REZ		5,051,309	09/24/91	Kawaki, T. et al.	428	332	04/20/90
REZ		5,073,423	12/17/91	Johnson, R.E., et al.	428	40	01/04/90
REZ		5,223,862	06/29/93	Dasher, D., et al.	351	163	04/08/91
REZ		5,268,231	12/07/93	Knapp-Hayes, S.J.	428	409	07/02/92
REZ		5,286,419	02/15/94	Van Ligten, R.F., et al.	264	1.3	02/20/92
REZ		5,531,940	07/02/96	Gupta, A., et al.	264	1.7	12/10/93
REZ		5,702,813	12/30/97	Murata, O., et al.	428	332	08/10/95
REZ		5,800,744	09/01/98	Munakata, Y.	264	1.7	08/13/96

## FOREIGN PATENT DOCUMENTS

[illegible]

## OTHER DOCUMENTS


**Examiner:**

**Date Considered:**

5/29/03

Please type a plus sign (+) in this box ☒

Approved for use through 10/31/2002. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

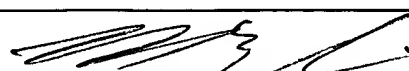
Complete if Known

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	09/848,594
				Filing Date	05/03/2001
				First Named Inventor	Sujal Bhalakia et al.
				Group Art Unit	2873 1773
				Examiner Name	Jordan Schwartz
Sheet	1	of	2	Attorney Docket Number	10-9393 (Formerly 589.063US2)

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document	Date of Publications of Cited Documents MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lin s, Where Relevant Passages or R levant Figures Appear
		Number			
REZ	A1	6,328,446	12-11-2001	Bhalakia et al.	
REZ	A2	5,856,860	01-05-1999	Bhalakia et al.	
REZ	A3	5,827,614	10-27-1998	Bhalakia et al.	
<del>REZ</del>	<del>A4</del>	<del>5,800,744</del>	<del>09-01-1998</del>	<del>Munakata</del>	<del></del>
REZ	A5	5,757,459	05-26-1998	Bhalakia et al.	
<del>REZ</del>	<del>A6</del>	<del>5,702,813</del>	<del>12-30-1997</del>	<del>Murata et al.</del>	<del></del>
<del>REZ</del>	<del>A7</del>	<del>5,531,940</del>	<del>07-02-1996</del>	<del>Gupta et al.</del>	<del></del>
<del>REZ</del>	<del>A8</del>	<del>5,286,419</del>	<del>02-15-1994</del>	<del>Van Eigten et al.</del>	<del></del>
<del>REZ</del>	<del>A9</del>	<del>5,268,231</del>	<del>12-07-1993</del>	<del>Knapp-Hayes</del>	<del></del>
<del>REZ</del>	<del>A10</del>	<del>5,223,862</del>	<del>06-29-1993</del>	<del>Dashor et al.</del>	<del></del>
<del>REZ</del>	<del>A11</del>	<del>5,073,423</del>	<del>12-17-1991</del>	<del>Johnson et al.</del>	<del></del>
<del>REZ</del>	<del>A12</del>	<del>5,051,309</del>	<del>09-24-1991</del>	<del>Kawaki et al.</del>	<del></del>
<del>REZ</del>	<del>A13</del>	<del>4,883,548</del>	<del>11-28-1989</del>	<del>Onoki</del>	<del></del>
<del>REZ</del>	<del>A14</del>	<del>4,873,029</del>	<del>10-10-1989</del>	<del>Blum</del>	<del></del>
<del>REZ</del>	<del>A15</del>	<del>4,867,553</del>	<del>09-19-1989</del>	<del>Frieder</del>	<del></del>
<del>REZ</del>	<del>A16</del>	<del>4,793,703</del>	<del>12-27-1988</del>	<del>Fretz, Jr.</del>	<del></del>
<del>REZ</del>	<del>A17</del>	<del>4,781,452</del>	<del>11-01-1988</del>	<del>Acc</del>	<del></del>
<del>REZ</del>	<del>A18</del>	<del>4,679,918</del>	<del>07-14-1987</del>	<del>Acc</del>	<del></del>
<del>REZ</del>	<del>A19</del>	<del>4,645,317</del>	<del>02-24-1987</del>	<del>Frieder et al.</del>	<del></del>
<del>REZ</del>	<del>A20</del>	<del>4,495,015</del>	<del>01-22-1985</del>	<del>Petten</del>	<del></del>
<del>REZ</del>	<del>A21</del>	<del>4,268,134</del>	<del>05-19-1981</del>	<del>Gulati et al.</del>	<del></del>
<del>REZ</del>	<del>A22</del>	<del>3,940,304</del>	<del>02-24-1976</del>	<del>Schuler</del>	<del></del>
<del>REZ</del>	<del>A23</del>	<del>3,877,798</del>	<del>04-15-1974</del>	<del>Tolar et al.</del>	<del></del>
<del>REZ</del>	<del>A24</del>	<del>3,846,013</del>	<del>11-05-1974</del>	<del>Cohen</del>	<del></del>
<del>REZ</del>	<del>A25</del>	<del>3,786,119</del>	<del>01-15-1974</del>	<del>Ortlieb</del>	<del></del>
<del>REZ</del>	<del>A26</del>	<del>3,051,054</del>	<del>08-28-1962</del>	<del>Grandon</del>	<del></del>

COPY OF PAPERS  
ORIGINALLY FILEDRECEIVED  
JUL 12 2002  
TECHNOLOGY CENTER 2800

Examiner Signature		Date Considered	5/29/03
--------------------	---	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent documents. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) in this box → ☒Approved for us through 10/31/2002. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

Complete if Known

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

2

of

2

Application Number

09/848,594

Filing Date

05/03/2001

First Named Inventor

Sujal Bhalakia et al.

Group Art Unit

~~2873~~ 1773

Examiner Name

Jordan Schwartz

Attorney Docket Number

10-9393  
(Formerly 589.063US2)

## FOREIGN PATENT DOCUMENTS


Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Date of Publications of Cited Documents MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup>				
REZ	B1	JP	61-032004		02-14-1986	Koda Hiroyuki et al.		✓
REZ	B2	JP	56-13139		02-09-1981	Minori Wakayoshi		✓

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

COPY OF PAPERS  
ORIGINALLY FILED

RECEIVED  
JUL 12 2002  
TECHNOLOGY CENTER 2800

Examiner Signature		Date Considered	5/29/03
-----------------------	---	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

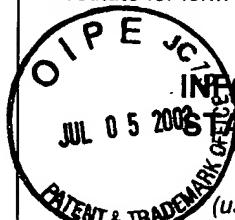
<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent documents. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) in this box → ☒Approved for use through 10/31/2002. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO



# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Sheet	1	of	2	Application Number	09/848,594
				Filing Date	05/03/2001
				First Named Inventor	Sujal Bhalakia et al.
				Group Art Unit	2873 1773
				Examiner Name	Jordan Schwartz
				Attorney Docket Number	10-9393 (Formerly 589.063US2)

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document	Date of Publications of Cited Documents MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number			
	A1	6,328,446	12-11-2001	Bhalakia et al.	
	A2	5,856,860	01-05-1999	Bhalakia et al.	
	A3	5,827,614	10-27-1998	Bhalakia et al.	
	A4	5,800,744	09-01-1998	Munakata	
	A5	5,757,459	05-26-1998	Bhalakia et al.	
	A6	5,702,813	12-30-1997	Murata et al.	
	A7	5,531,940	07-02-1996	Gupta et al.	
	A8	5,286,419	02-15-1994	Van Ligten et al.	
	A9	5,268,231	12-07-1993	Knapp-Hayes	
	A10	5,229,862	06-29-1993	Dasher et al.	
	A11	5,079,423	12-17-1991	Johnson et al.	
	A12	5,051,309	09-24-1991	Kawaki et al.	
	A13	4,883,548	11-28-1989	Onoki	
	A14	4,873,029	10-10-1989	Blum	
	A15	4,867,553	09-19-1989	Frieder	
	A16	4,793,703	12-27-1988	Pretz, Jr.	
	A17	4,781,452	11-01-1988	Ace	
	A18	4,679,918	07-14-1987	Ace	
	A19	4,645,317	02-24-1987	Frieder et al.	
	A20	4,495,015	01-22-1985	Petcen	
	A21	4,268,134	05-19-1981	Gulati et al.	
	A22	3,940,304	02-24-1976	Schuler	
	A23	3,877,798	04-15-1974	Tolar et al.	
	A24	3,846,013	11-05-1974	Cohen	
	A25	3,786,119	01-15-1974	Orthlieb	
	A26	3,051,054	08-28-1962	Grandon	

Examiner Signature		Date Considered	5/29/03
-----------------------	--	--------------------	---------

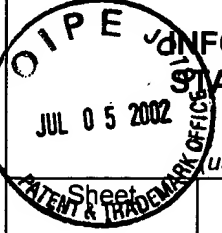
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent documents. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) in this box → ☒Approved for use through 10/31/2002. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.


Substitute for form 1449A/PTO				Complete if Known		
 <p>use as many sheets as necessary)</p>				Application Number	09/848,594	
				Filing Date	05/03/2001	
				First Named Inventor	Sujal Bhalakia et al.	
				Group Art Unit	<del>2873</del> 1773	
				Examiner Name	Jordan Schwartz	
Attorney Docket Number	10-9393 (Formerly 589.063US2)					
Sheet	2	of	2			

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Date of Publications of Cited Documents MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup>				
	B1	JP	61-032004		02-14-1986	Koda-Hiroyuki et al.		✓
	B2	JP	56-13139		02-09-1981	Minori Wakayoshi		✓

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

Examiner Signature		Date Considered	5/29/03
--------------------	---	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent documents. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, Washington, DC 20231.